

AMENDMENTS TO THE DRAWINGS

The attached drawing sheets include changes to Figs. 1, 4, 5, 6 and 8 and replaces the original sheets with Figs. 1, 4, 5, 6 and 8. In Figs. 1, 4, 5, 6 and 8, the term "DERAY PART" for elements 12 and 13 has been corrected to "DELAY PART."

Attachment: 4 replacement sheets

REMARKS/ARGUMENTS

Applicant would like to thank the Examiner for the careful consideration given the present application. The application has been carefully reviewed in light of the Office Action, and amended as necessary to more clearly and particularly describe the subject matter that Applicant regards as the invention.

Claims 1 and 3 have been amended. Claim 4 has been canceled.

The drawings of Figs. 1, 4, 5, 6, and 8 have been amended to correct a typographical error. In the amended figures, the term “DERAY PART” for elements 12 and 13 has been corrected to “DELAY PART.”

The title has been objected to. The title has been amended as requested by the Examiner.

The abstract of the disclosure is objected to. The abstract has been amended as requested by the Examiner.

Claims 1 and 4 stand rejected under 35 U.S.C. 102(e) as being anticipated by Schell (U.S. Pub. No. 2002/0176514 A1). Claim 1 has been amended with the subject matter of claim 4, and claim 4 has been canceled. For at least the following reason, the Examiner’s rejection is respectfully traversed.

Schell does not disclose or teach “a delay quantity switching and control unit, switching and controlling the quantity of delay of the first delay unit and the second delay unit on the basis of the delay quantity data of the delay quantity table” as recited in amended claim 1. The Office Action refers to the Schell switches SW1–SW3, Fig. 18, and paragraph 0065 as disclosing these elements.

Schell discloses that a magnitude signal is applied to a look-up table and the output delayed by a magnitude delay element, and a phase signal is applied to a look-up table and the

output is delayed by a phase delay element (paragraph 0043; Fig. 12). Schell also discloses multi-mod operation with an EDGE QASM modulator, a D-AMPS QAM modulator, and a GMSK PAM modulator (paragraph 0064; Fig. 18). In Schell, the three switches SW1–SW3 are used to select among the various modulator modes (paragraph 0065; Fig. 18).

Since the three Schell switches SW1–SW3 are only used to select among the modulator modes, these three switches SW1–SW3 do not switch and control the quantity of delay of the magnitude delay element and the phase delay element. Therefore, Schell fails to teach a delay quantity switching and control unit for switching and controlling the quantity of delay of the first delay unit and the second delay unit on the basis of the delay quantity data of the delay quantity table. Thus, Schell does not disclose or teach all the elements of the claimed invention.

Claim 3 stands rejected as a being unpatentable over Schell in view of Pakonen (U.S. Patent No. 6,480,704 B1), and further in view of Yoneyama (U.S. Pub. No. 2001/0050963 A1) and Kahn (U.S. Patent No. 4,176,319). For at least the following reasons, the Examiner's rejection is respectfully traversed.

None of the references disclose or suggest “wherein when the transmit data having different signal bandwidth as the transmit data is inputted, the delay quantity switching control unit switches the quantity of delay to the quantity of delay corresponding to the signal bandwidth.” The Office Action refers to Kahn in col. 4, lines 3–14, as disclosing these elements.

Kahn merely discloses adjusting the bandwidth between a phase modulation path and an envelope modulation path (col. 4, lines 3–8) or including a variable time delay network in the path having the shorter time delay (col. 4, lines 8–14), so the time delay between the paths is equalized.

Although Kahn discloses adjusting the bandwidth between a phase modulation path and an envelope modulation path, Kahn is silent on what occurs with inputted transmit data having different signal bandwidths. Therefore, Kahn fails to teach or suggest that when transmit data having different signal bandwidth as the transmit data is inputted, the delay quantity switching control unit switches the quantity of delay to the quantity of delay corresponding to the signal bandwidth. Therefore, even if combined, the references do not disclose or suggest all the element of the claimed invention.

Furthermore, there is no suggestion or motivation for one skilled in the art at the time the invention was made to combine Schell, Pakonen, Yoneyama, and Kahn to arrive at the claimed invention.

Schell discloses a power ramping technique in a multi-mode transmitter (paragraphs 0064–0065; Fig. 18). Pakonen discloses an arrangement for forming an amplitude and phase modulated transmission signal (col. 3, line 55, to col. 4, line 35; Fig. 2). Yoneyama discloses a delay time control system for controlling the delay time *among multiple transmission units* (Fig. 2; paragraphs 0024–0025). Kahn discloses adjusting the bandwidth between a phase modulation path and an envelope modulation path or including a variable time delay network in the path having the shorter time delay, so the time delay between the paths are equalized (col. 4, lines 3–14).

There is no suggestion or motivation to use the Yoneyama delay time control system, which is used between multiple transmission units in a transmitter, in a transmitter with one transmission unit as in Schell and Pakonen. Also, there is no suggestion or motivation to the use the Kahn bandwidth adjusting elements or time delay network, which is used for a phase modulation path and an envelope modulation path, between multiple transmission units of a

transmitter as in Yoneyama or between an amplitude path and a phase path as in Schell and Pakonen. Reconsideration and withdrawal of the rejection based upon the combination of references is respectfully requested.

Claims 5 and 6 stand rejected as being unpatentable over Schell in view of Yoneyama (U.S. Pub. No. 2001/0050963 A1). For the following reasons, the Examiner rejection is respectfully traversed.

There is no suggestion or motivation for one skilled in the art at the time the invention was made to combine Schell and Yoneyama to arrive at the claimed invention.

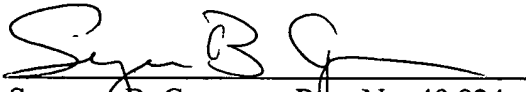
Schell discloses a power ramping technique in a multi-mode transmitter (paragraphs 0064–0065; Fig. 18). Yoneyama discloses a delay time control system for controlling the delay time *among multiple transmission units* (Fig. 2; paragraphs 0024–0025). There is no suggestion or motivation to use the Yoneyama delay time control system, which is used between multiple transmission units in a transmitter, in a transmitter with one transmission unit as in Schell. Reconsideration and withdrawal of the rejection based upon the combination of references is respectfully requested.

In light of the foregoing, it is respectfully submitted that the present application is in condition for allowance and notice to that effect is hereby requested. If it is determined that the application is not in condition for allowance, the Examiner is invited to initiate a telephone interview with the undersigned attorney to expedite prosecution of the present application.

Appln. No. 10/530,990
Amendment dated December 12, 2006
Reply to Office Action dated September 21, 2006

If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 16-0820, our Order No. 37687.

Respectfully submitted,
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